

USPATFULL
AN 97:81250 USPATFULL
TI Pharmaceutical formulations
IN Cho, Young W., Freemantle, Australia
Flynn, Michael John, Surrey, England
Shepherd, Thomas Smith, Surrey, England
PA Skua Investments Limited, Douglas, Isle of Man (non-U.S. corporation)
PI US 5665700 19970909
AI US 1994-290293 19940815 (8)
RLI Continuation of Ser. No. US 1992-927394, filed on 6 Nov 1992, now
abandoned
DT Utility
EXNAM Primary Examiner: Tsang, Cecilia J.; Assistant Examiner: Gupta, Anish
LREP Hale and Dorr LLP
CLMN Number of Claims: 46
ECL Exemplary Claim: 1
DEWN 10 Drawing Figure(s); 10 Drawing Page(s)
LN.CNT 1494
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
CLM What is claimed is:
1. A **water-in-oil** pharmaceutical formulation for
oral or rectal administration comprising a hydrophilic phase
dispersed in a lipophilic phase to form an emulsion, wherein said
hydrophilic phase. . . .
20. A **water-in-oil** pharmaceutical formulation for
oral or rectal administration comprising a hydrophilic phase
dispersed in a lipophilic phase to form an emulsion, wherein said
hydrophilic phase. . . .
40. A **water-in-oil** pharmaceutical formulation for
oral or rectal administration comprising a hydrophilic phase
dispersed in a lipophilic phase to form an emulsion, wherein said
hydrophilic phase. . . .
41. A **water-in-oil** pharmaceutical formulation for
oral or rectal administration comprising a hydrophilic phase
dispersed in a lipophilic phase to form an emulsion, wherein said
hydrophilic phase. . . .

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M. Borin

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AN 1978-34432A [19] WPIDS

TI **Water-in-oil** type emulsion suitable for
intravenous admin. - prepd. by heating an aq. soln. of drug or
nutrient and gelatin and mixing with heated fat and oil.

DC B07 D23

PA (KYOW) KYOWA FERMENTATION KK

CYC 1

PI JP 53034915 A 19780331 197819 *

PRAI JP 1976-187891 19760913

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AB JP 53034915 A UPAB: 19930901

A new process for prepg. water-in-oil type emulsions comprises heating a
soln. of drug or nutritive agent and gelatin at 60-90 degrees C., and
then
mixing the soln. with a fat and oil preliminarily heated at 60-90 degree
C.

Water-in-oil type emulsions when applied
intravenously stay in the blood capillaries and slowly release the
drug into the tissue; thus, the high tissue level of drug (e.g.
antibiotics, anti-tumour agents, analgesics) can be kept for a long
period
of time. The emulsions, however, are not so stable in preservation
because they are resolved into the oil and water. The mixing of gelatin
into the emulsions eliminates such disadvantage; and the resulting
emulsion even after preservation for a long period is restored to the
original state by moderate shaking.